

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A ~~computer implemented~~ method to process a document, comprising:
employing a processor executing computer-executable instructions stored on a computer-readable storage medium to implement the following acts:
 - analyzing features of a document for the presence of specific keywords, the keywords defined in a pre-set vocabulary list;
 - determining the presence of a keyword in the document that matches a keyword appearing in the pre-set vocabulary list;
 - searching the document for additional keywords related to the matching keyword to determine a context for the matching keyword;
 - generating a set of domain models that represent the document, the domain models selected to represent the document are a function of the matching keyword and the additional related keyword, and comprise properties relevant to the matching keyword;
 - populating the properties of the set of domain models with corresponding data extracted from the document;
 - storing the set of domain models together with other domain models representing other documents;
 - structuring the stored domain models so as to be searchable by a querying system; **and**
 - retrieving a collection of domain models in response to a search performed on the document for further analysis of specific domain model properties[.]; **and**
 - applying an algorithm to the respective properties of the retrieved collection of domain models to compute a data value relating to the collection.

2. (Previously Presented) The method of claim 1, wherein a domain model relates to a simple type or a complex type, and:

when a property for the domain model is of the simple type, populating the domain model with a value according to the document being represented; and

when a respective property type for the domain model is of the complex type, selectively adding another domain model as the value for that property according to the document being represented.

3. (Previously Presented) The method of claim 1, further comprising:

searching the set of domain models to determine a subset of features of the document that match search criteria.

4. (Previously Presented) The method of claim 2, comprising:

analyzing the set of domain models by determining values of properties from at least one model, the values extracted from the document represented by the domain model.

5. (Previously Presented) The method of claim 1, further comprising:

describing the document as instances of the respective models of the set.

6. (Previously Presented) The method of claim 1, further comprising:

setting values in at least one of the models that represent supplemental information not in the document but that is associated with the document.

7. (Previously Presented) The method of claim 2, further comprising:

an automated process where a list of conditions must be met in the document to populate a property with a value or set of values.

8. (Cancelled)

9. (Currently Amended) A ~~computer implemented~~ method to facilitate locating a document, comprising:

employing a processor executing computer-executable instructions stored on a computer-readable storage medium to implement the following acts:

searching each of a plurality of documents for the presence of at least one matching keyword from a list of keywords;

representing each document with at least one domain model selected based on the matching keyword, the at least one domain model comprising properties relevant to the keyword;

populating the properties of each of the at least one domain model with data extracted from the respective documents;

storing the domain models;

receiving a query related to locating documents;

searching across the stored domain models;

identifying a set of the stored domain models that match criteria of the received query; and

applying an algorithm to the respective properties of the identified set of domain models to compute a data value relating to the documents represented by the identified set.

10. (Currently Amended) A system ~~comprising computer executable instructions embodied on a computer readable storage medium that, when executed on one or more processors, that facilitates executes~~ document processing, comprising:

a processor;

a memory communicatively coupled to the processor, the memory having stored therein computer-executable instructions configured to implement the system, including:

means for modeling a domain with a plurality of domain models;

means for determining the presence of a keyword in a document that matches a keyword appearing in the pre-set vocabulary list;

means for searching the document for additional keywords related to the matching keyword to determine a context for the matching keyword;

means for representing the document as a collection of at least one domain model, the domain model selected based at least on the matching keyword and the additional related keywords and having properties relating to the matching keyword; and

means for populating the properties of the at least one domain model with values corresponding to properties of the document being represented[.]; and

means for populating at least one domain model property with a disparate domain model as the value of the domain model property.

11. (Currently Amended) A machine-readable storage medium storing a set of instructions that, when executed by a machine, cause the machine to:

model a domain with a plurality of domain models;

determine the presence of a keyword in a document that matches a keyword appearing in the pre-set vocabulary list;

search the document for additional keywords related to the matching keyword to determine a context for the matching keyword;

select at least one domain model to represent the document based on the matching keyword and the determined context, the at least one domain model comprising properties relating to the matching keyword and determined context; **and**

populate the properties of the at least one domain model with values corresponding to properties of the document being represented[[.]]; **and**

populate at least one domain model property value with a disparate domain model.

12. (Cancelled)

13. (Previously Presented) The method of claim 1, further comprising representing portions of the documents with respective instances of a subset of the generated domain models.

14. (Previously Presented) The method of claim 13, wherein the respective instances are computation ready representations of the portions of the documents that can be understood by at least one computer applications.

15. (Cancelled)

16. (Previously Presented) The method of claim 1, wherein a hierarchy of domain models are generated as a function of respective analyzed features.

17. (Previously Presented) The method of claim 9, further comprising searching across the domain models in connection with locating a collection of documents.

18. (Previously Presented) The method of claim 9, further comprising populating at least one domain model property value with a disparate domain model.

19. (Previously Presented) The method of claim 9, further comprising populating at least one domain model property with information associated with the document but not found in the document.

20. (Cancelled)

21. (Currently Amended) The ~~method system~~ of claim 10, further comprising means for searching across the plurality of domain models in connection with calculating statistics associated with a set of documents.

22. (Cancelled)